

File No.

DUPLICATE

T. 16N R. 11E

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

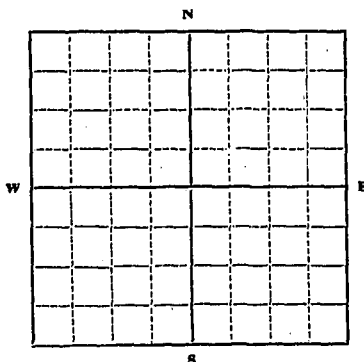
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
APR 4 1962

STATE ENGINEER

1. Lucille A. Hawkinson of Garfield Jordan
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
Have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 SW Sec. 11 T. 16R. 11E

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based.....

Well No. 1: Domestic

Well No. 2: Stock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....

Well No. 1: 1928

Well No. 2: 1928

4. The amount of groundwater claimed (in miner's inches or gallons per minute).....

Well No. 1: 6 gallons per minute

Well No. 2: 6 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.....

None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....

Well No. 1: Electric motor pump

Well No. 2: Electric pump jack

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....

Well No. 1: 1928

Well No. 2: 1928

8. The depth of water table.....

No. 1: 18 feet

Well No. 2: 18 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....

Well No. 1: dug well 5 feet across and 5 feet deep and tapers to an 8 inch hole, piped into house; Well No. 2: hand dug well 5 feet across and walled with cement.

10. The estimated amount of groundwater withdrawn each year.....

waters 50 head of cattle for a period of 8 months per year.

11. The log of formations encountered in the drilling of each well if available.....

Not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.....

None

Signature of Owner.....

Date..... April 3, 1962

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

121563

121563

STATE OF MONTANA }
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 3 day of April

A. D. 19 62 at 2:45 o'clock P. M.

Chas. Bragg
County Clerk and Recorder

By Sylvia Trumbull
Deputy

Fee Paid \$ 2.00

File No.

T. 16 R. 41

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

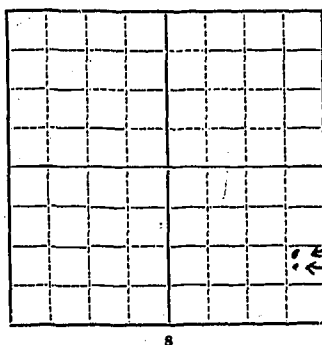
RECEIVED
MAY 25 1962

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Leonard C. Pluhar of Bohagen Mont.
(Name of Appropriator) (Address) (Town)
County of Garfield State of Mont.
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S.E. 1/4 Sec. 14 T. 16 R. 41

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based. #1 stock water, #2 Ranch House

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. #1 - 1916 steady
#2 - 1930 steady

4. The amount of groundwater claimed (in miner's inches or gallons per minute). #1 - 5 gal/min
#2 - 5 gal/min

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.
No

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
#1 - windmill + pump jack
#2 - jet pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. year 1916 -
no. 2 1930

8. The depth of water table. no. 1 - 32 feet well no. 2 32 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. well no. 1 Dim. 6 - 90 ft deep
well 2 Dim 6 80 feet deep

10. The estimated amount of groundwater withdrawn each year. #1 - 25,000 : #2 - 60,000 gal

11. The log of formations encountered in the drilling of each well if available. None

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner

Leonard C. PluharDate May 21 1962

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

121811

Filed for record this 22 day of June

May A. D. 1962 at 2:50

o'clock. M. and duly recorded in Book

of Page

County Clerk and Recorder

By _____

Fee Paid 2.00

RECEIVED

OCT 17 1972

16N-41E
County Garfield

DRILLER'S LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner Phillip Pluhar

Address Cabagen, Mont.

Date well started July 5

completed July 8, 1972

Type of well Drilled

Equipment used comb. rotary

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

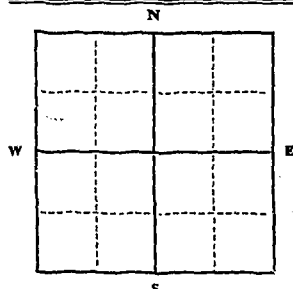
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6in.	4in steel 7 lb.	0	255	slots	190	255



16 20
T. 16 S. R. 11 E.

Static water level 100 ft.*
Pumping water level 110 ft.*
at 30 gallons per minute,
measured minutes after pumping began.
*Measured from ground level.
Well developed by bailer
for 2 hours.
Power Pump HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Carl Jerald By Altha M. Jerald

Driller's Address 712 Garland St.

Millis City, Mt.

LICENSE NO. 35

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)		
From (Feet)	To (Feet)	
0	20	top soil
20	100	shale
100	102	rock
102	150	shale
150	151	rock
151	195	shale
195	197	rock
197	225	shale
225	228	rock
228	255	sand stone

25.5 Show exact depth of bottom

51,629

885

138088

STATE OF MONTANA
County of Garfield
Filed this 13 day of Oct. 1912 at 4 P.
Charles C. Chapman, County Clerk
by Marie R. Mulick, Deputy
Office of County Clerk & Recorder
\$2.00

RECEIVED
SEP 16 1957

T. 16N R. 41E
County Garfield

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Phil Pluhar Address Cohagen, Montana

Driller George Askins Address Miles City, Montana

Date Started May 15, 1944 Date Completed May 18, 1944

Location: Sec. 24 T. 16N R. 41E $\frac{1}{4}$ sec. SW $\frac{1}{4}$

Type of well Drilled Equipment used Rotary
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other: _____

Casing: 1 ft. to 206 ft. Type steel Size 4 inch

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 206 to ft. 266 Ft. _____ to ft. _____

Type of screen or perforations 3/16 hole

Static Water level, for non-flowing well: 5 feet

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level 20 feet at 20 gal. per min.

How tested: Bailer

Length of test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

120 feet cement seal to shut surface water off

(over)

Log of Well

[illegible]

RECEIVED
SEP 16 1957

T. 16N R. 41E
County Garfield

24

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Phil Pluhar Address Cohagen, Montana
Driller Eastern Montana Drilling Company Address Miles City, Montana
Date Started October 27, 1948 Date Completed October 28, 1948
Location: Sec. 24 T. 16N R. 41E 1/4 sec. ~~SW 1/4~~

Type of well Drilled (Dug, driven, bored, or drilled) Equipment used Rotary (Churn drill, rotary, other)

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other:

Casing: 1 ft. to 100 ft. Type steel Size 4 inch

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. none to ft. Ft. to ft.

Type of screen or perforations none

Static Water level, for non-flowing well: 90 feet

Shut-in pressure, for flowing well: none lb./sq. in. on: (date)

Pumping water level 100 feet at 14 gal. per min. 200

How tested: Bailer

Length of test 2 hour

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

none

(over)

[illegible][illegible]

File No.

T. 16 N. R. 41 E.

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

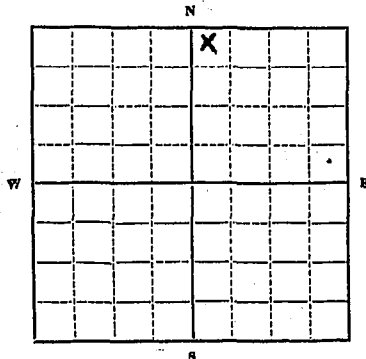
RECEIVED
APR 24 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Ludmila Hawkinson, of Jordan
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 NE Sec. 26 T. 16 R. 41

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based. Stock
water well.

3. Date or approximate date of earliest beneficial use; and how con-
tinuous the use has been. July 14, 1943
Continuous use since 1943

4. The amount of groundwater claimed (in miner's inches or gallons
per minute). 20 gals per minute

5. If used for irrigation, give the acreage and description of the lands
to which water has been applied and name of the owner thereof

None

6. The means of withdrawing such water from the ground and the
location of each well or other means of withdrawal.

windmill and pumps - jack

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater. July 13 to 14, 1943

8. The depth of water table. 40 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other
works for the withdrawal of groundwater. Drilled well - 30.5 feet deep
30.5 feet of 4 in. cas. w/ 63 feet of pump pipe
with 2 1/2 in. cylinder and pump head.

10. The estimated amount of groundwater withdrawn each year. water 50 head cattle

11. The log of formations encountered in the drilling of each well if available.

Not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including
reference to book and page of any county record.

None

Signature of Owner Ludmila Hawkinson
by Leo J. Morgan

Date April 22, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is
located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau
of Mines and Geology, and Quadruplicate for the Appropriator.

123446

65

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 22 day of April

A. D. 19 63 at 1:30 o'clock P. M.

Charles E. Daugherty
County Clerk and Recorder

By _____ Deputy

Fee Paid \$ 2.00

RECORDED MR
FILED CL

File No.

DUPLICATE

T. 16 N. R. 41 E

County GARFIELD

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

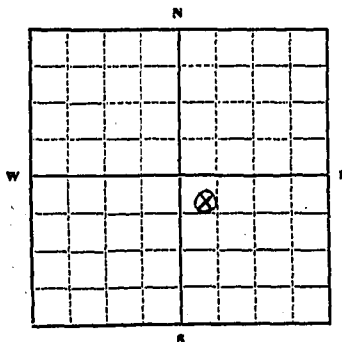
RECEIVED
MAR 1 1962

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. JOHN J. PLUHAR, of COHAAGEN (Town)
(Name of Appropriator) (Address)
County of GARFIELD State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec 33 T. 16 R. 41

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based.
STOCK WATER

3. Date or approximate date of earliest beneficial use; and how con-
tinuous the use has been.
July 25, 1961
Continuous Use

4. The amount of groundwater claimed (in miner's inches or gallons
per minute).
10 gal per minute

5. If used for irrigation, give the acreage and description of the lands
to which water has been applied and name of the owner thereof
NOT APPLICABLE

6. The means of withdrawing such water from the ground and the
location of each well or other means of withdrawal.
pump jack
and windmill from well
SE 1/4 Sec 33 T. 16 N. R. 41 E

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater.
began July 23, 1961
Completed July 25, 1961

8. The depth of water table.
82 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other
works for the withdrawal of groundwater.
Rotary drilled well 5 3/8" diameter 85 ft deep
Cased to Bottom w. 4" 4" i.d. steel casing 10 ft penetration

10. The estimated amount of groundwater withdrawn each year.
150,000 gallons

11. The log of formations encountered in the drilling of each well if available.
0 to 22, Soil, sand & gravel -
22 to 28, Clay - 28 to 30, Rock - 30 to 42, Blue Clay - 42 to 50, Sand - 50 to 52, Coal -
52 to 55, Clay - 55 to 67, Coal - 67 to 82, Sand - 82 to 85, Coal

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including
reference to book and page of any county record.
NONE

Signature of Owner.

John J. Pluhar
Date Feb 27, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is
located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau
of Mines and Geology, and Quadruplicate for the Appropriator.

3780

57

123239

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 27 day of FEBRUARY

A. D. 19 63 at 11:10 o'clock A M.

Charles E. Hargrave
County Clerk and Recorder

By _____ Deputy

Fee Paid \$ 2.00

INDEXED md
FILED CH

G

File No. _____

T 16N R 41

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

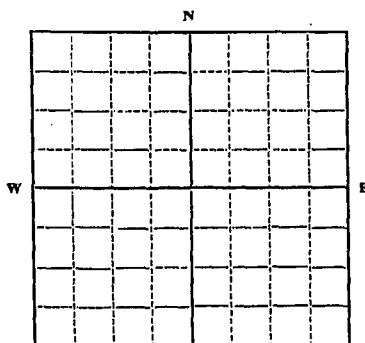
RECEIVED
JAN 4 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Phillip Pluhar, of Cohagen
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 35-16-41

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 1. T. 15 R. 41

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based. Well 1: Stockwater.
Well 2: Stockwater
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Well 1: about 1948.
Well 2: 1961
4. The amount of groundwater claimed (in miner's inches or gallons per minute). Well 1: 7 gallons per minute
Well 2: 3 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.
Well 1: none
Well 2: none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
Well 1: by windmill on pump.
Well 2: by windmill on pump.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Well 1: 1948.
Well 2: 1961
8. The depth of water table. Well 1: 90 feet. Well 2: 30 feet.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Well 1: 4 inch casing & 1 1/2 inch pipe on pump.
Well 2: 4 inch casing & 1 1/2 inch pipe on pump.
10. The estimated amount of groundwater withdrawn each year. Well 1: Depending on conditions.
Well 2: Depending on conditions
11. The log of formations encountered in the drilling of each well if available. Well 1: first 90 feet shale;
16 feet of sand and coal mixed; 44 feet of shale below coal mixture. (140 feet deep)
Well 2: first 40 feet of sand and shale; 20 feet of sand; Well 60 feet deep.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. Well 1: None
Well 2: None

Signature of Owner Phillip Pluhar

Date January 3, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

123001

123001

STATE OF MONTANA }
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 9 day of Jan

A. D. 1915 at 1:15 o'clock PM

Charles D. Gray
County Clerk and Recorder

By _____ Deputy

Fee Paid \$ 7.00

RECEIVED
SEP 10 1957

T. 16N R. 41E

County. Garfield

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner. Phil Fluhr Address. Cohagen, Montana

Driller. Eastern Montana Drilling Company Address. Miles City, Montana

Date Started. October 28, 1948 Date Completed. October 30, 1948

Location: Sec. 35 T. 16N R. 41 1/4 sec. SE 1/4

Type of well. Drilled Equipment used. Rotary
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other: _____

Casing: 1 ft. to 100 ft. Type. steel Size. 4 inch

Casing: _____ ft. to _____ ft. Type. _____ Size. _____

Casing: _____ ft. to _____ ft. Type. _____ Size. _____

Perforated or Screened: Ft. none to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations. none

Static Water level, for non-flowing well: 40 feet.

Shut-in pressure, for flowing well: none lb./sq. in. on: _____ (date)

Pumping water level. 20 feet at 10 gal. per min.

How tested: Bailer

Length of test. 2 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

none

(over)

Log of Well

[illegible]

GROUNDWATER INDEX

Page 7 of 7

County Yarfield Twp. 16th Rge. 42d.

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
4	Hafila, Anton	484	124940	-
7	Pluhar, Arthur	482	122085	-
7	Pluhar, Arthur P.	484	125485	-
8	Hafila, Joe	57 Kill dog		-
9	Hafila, Joe	57 Kill dog		-
10	Hafila, A. ton	484	124939	-
13	Schmidt, Frank	484	121832	-
14	Schmidt, Frank	484	121832	See Sec. 13 above.
15	Hafila, Anton	484	124941	-
17	W. W. Land & Limestone Co.	484	125105	-
18	Pluhar, Arthur	57 Kill dog		-
18	Pluhar, Arthur	57 Kill dog		-
22	Schmidt, Anton	484	121831	-
25	Schmidt, Anton	484	121831	See Sec. 22 above.
26	Hafila, Joe	57 Kill dog		-
28	W. W. Land & Limestone Co.	484	125104	-
34	W. W. Land & Limestone Co.	484	125098	-
34	Shell Oil Company	57 Kill dog		-
34	Shell Oil Company	484	121555	-
36	W. W. Land & Limestone Co.	484	125099	-
12	Elmbrusch, Dan C	GW 4	121836	-
22	Joe Hafila	well log		

File No.

T. 16 N. R. 42 E.

DUPLICATE

County Garfield

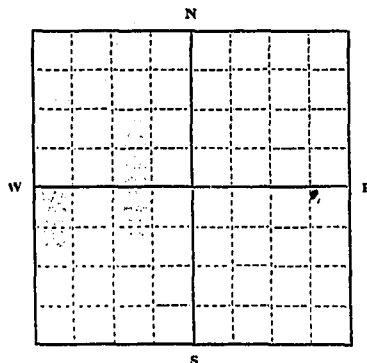
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
DEC 30 1963
STATE ENGINEER

1. Anton Hafila, of Cohagen
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 4 T. 16 R. 42

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based
Stock Well
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 6-15-58 and used continuously.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the land and the location of each well or other means of withdrawal
Windmill
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 6-9-58 begun -- 6-15-58 completed
8. The depth of water table 150 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled well, 4" casing used, 280 ft. deep
10. The estimated amount of groundwater withdrawn each year 270,000 gallons
11. The log of formations encountered in the drilling of each well if available Top soil & Sand, Hard rock, yellow clay, Gumbo, Fine Sand, Blue Clay, Soft Sand Rock, Blue Clay, Rock, Fine Sand, Hard Shale, Coal, Hard Shale, Coal.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None

Signature of Owner

Date 12-26-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

14750

296

124940

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 26 day of Dec.

A. D. 1963 at 5:45 o'clock P. M.

Charles E. Langston
County Clerk and Recorder

Marion B. Jones
Deputy

Fee Paid \$ 2.00

INDEXED mj
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GW 2

File No.

DUPLICATE

T. 16 R. 42

County. Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Arthur Pluhar Address CohagenDriller Thoyd Higgins Address Miller City

Date of Notice of Appropriation of Groundwater

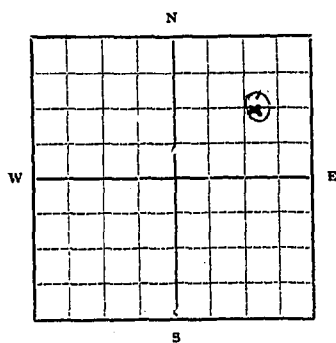
Date well started 7-16-62 Date Completed 7-20-62

Type of well Drilled Equipment Used Rotary
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 7/8	7 lb. 4"	0	180	7/8 holes	150	180



1/4 Sec. 7 T. 16 R. 42
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 150 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 160 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Bailer Length of Test 2 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Driller's License Number 12Driller's Signature Thoyd Higgins

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

1907.

122.085

122085

STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 30 day of July

A. D. 1962 at 4:30 o'clock P. M.
Class Dragg
 County Clerk and Recorder

By _____ Deputy

Fee Paid \$ 2.00

7/2/82

433

47

THE UNIVERSITY OF CHICAGO

10

150

100/20

1501

[illegible]

Material	Quantity	Cost	Value
Iron	100	100	100
Steel	200	200	200
Aluminum	300	300	300
Copper	400	400	400
Lead	500	500	500
Gold	600	600	600
Silver	700	700	700
Platinum	800	800	800
Palladium	900	900	900
Rhodium	1000	1000	1000
Iridium	1100	1100	1100
Osmium	1200	1200	1200
Vanadium	1300	1300	1300
Niobium	1400	1400	1400
Tantalum	1500	1500	1500
Strontium	1600	1600	1600
Zirconium	1700	1700	1700
Hafnium	1800	1800	1800
Thallium	1900	1900	1900
Lead	2000	2000	2000
Bismuth	2100	2100	2100
Antimony	2200	2200	2200
Arsenic	2300	2300	2300
Selenium	2400	2400	2400
Tellurium	2500	2500	2500
Polonium	2600	2600	2600
Astatine	2700	2700	2700
Francium	2800	2800	2800
Radium	2900	2900	2900
Actinium	3000	3000	3000
Thorium	3100	3100	3100
Protactinium	3200	3200	3200
Uranium	3300	3300	3300
Neptunium	3400	3400	3400
Plutonium	3500	3500	3500
Americium	3600	3600	3600
Curium	3700	3700	3700
Berkelium	3800	3800	3800
Californium	3900	3900	3900
Einsteinium	4000	4000	4000
Fermium	4100	4100	4100
Mendelevium	4200	4200	4200
Nobelium	4300	4300	4300
Lanthanum	4400	4400	4400
Cerium	4500	4500	4500
Praseodymium	4600	4600	4600
Neodymium	4700	4700	4700
Europium	4800	4800	4800
Gadolinium	4900	4900	4900
Terbium	5000	5000	5000
Dysprosium	5100	5100	5100
Ytterbium	5200	5200	5200
Lutetium	5300	5300	5300
Hafnium	5400	5400	5400
Tantalum	5500	5500	5500
Vanadium	5600	5600	5600
Chromium	5700	5700	5700
Manganese	5800	5800	5800
Iron	5900	5900	5900
Cobalt	6000	6000	6000
Nickel	6100	6100	6100
Copper	6200	6200	6200
Zinc	6300	6300	6300
Gallium	6400	6400	6400
Germanium	6500	6500	6500
Arsenic	6600	6600	6600
Selenium	6700	6700	6700
Bromine	6800	6800	6800
Krypton	6900	6900	6900
Rubidium	7000	7000	7000
Strontium	7100	7100	7100
Yttrium	7200	7200	7200
Zirconium	7300	7300	7300
Niobium	7400	7400	7400
Molybdenum	7500	7500	7500
Technetium	7600	7600	7600
Ruthenium	7700	7700	7700
Rhodium	7800	7800	7800
Palladium	7900	7900	7900
Silver	8000	8000	8000
Cadmium	8100	8100	8100
Indium	8200	8200	8200
Thallium	8300	8300	8300
Lead	8400	8400	8400
Bismuth	8500	8500	8500
Polonium	8600	8600	8600
Astatine	8700	8700	8700
Francium	8800	8800	8800
Radium	8900	8900	8900
Actinium	9000	9000	9000

Material	Quantity	Cost	Value
Iron	100	100	100
Steel	200	200	200
Aluminum	300	300	300
Copper	400	400	400
Lead	500	500	500
Gold	600	600	600
Silver	700	700	700
Platinum	800	800	800
Palladium	900	900	900
Rhodium	1000	1000	1000
Iridium	1100	1100	1100
Osmium	1200	1200	1200
Vanadium	1300	1300	1300
Niobium	1400	1400	1400
Tantalum	1500	1500	1500
Strontium	1600	1600	1600
Zirconium	1700	1700	1700
Hafnium	1800	1800	1800
Thallium	1900	1900	1900
Lead	2000	2000	2000
Bismuth	2100	2100	2100
Antimony	2200	2200	2200
Arsenic	2300	2300	2300
Selenium	2400	2400	2400
Tellurium	2500	2500	2500
Polonium	2600	2600	2600
Astatine	2700	2700	2700
Francium	2800	2800	2800
Radium	2900	2900	2900
Actinium	3000	3000	3000
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Neptunium	3400	3400	3400
Plutonium	3500	3500	3500
Americium	3600	3600	3600
Curium	3700	3700	3700
Berkelium	3800	3800	3800
Californium	3900	3900	3900
Einsteinium	4000	4000	4000
Fermium	4100	4100	4100
Mendelevium	4200	4200	4200
Nobelium	4300	4300	4300
Lanthanum	4400	4400	4400
Cerium	4500	4500	4500
Praseodymium	4600	4600	4600
Neodymium	4700	4700	4700
Europium	4800	4800	4800
Gadolinium	4900	4900	4900
Terbium	5000	5000	5000
Dysprosium	5100	5100	5100
Ytterbium	5200	5200	5200
Lutetium	5300	5300	5300
Hafnium	5400	5400	5400
Tantalum	5500	5500	5500
Vanadium	5600	5600	5600
Chromium	5700	5700	5700
Manganese	5800	5800	5800
Iron	5900	5900	5900
Cobalt	6000	6000	6000
Nickel	6100	6100	6100
Copper	6200	6200	6200
Zinc	6300	6300	6300
Gallium	6400	6400	6400
Germanium	6500	6500	6500
Arsenic	6600	6600	6600
Selenium	6700	6700	6700
Bromine	6800	6800	6800
Krypton	6900	6900	6900
Rubidium	7000	7000	7000
Strontium	7100	7100	7100
Yttrium	7200	7200	7200
Zirconium	7300	7300	7300
Niobium	7400	7400	7400
Molybdenum	7500	7500	7500
Technetium	7600	7600	7600
Ruthenium	7700	7700	7700
Rhodium	7800	7800	7800
Palladium	7900	7900	7900
Silver	8000	8000	8000
Cadmium	8100	8100	8100
Indium	8200	8200	8200
Thallium	8300	8300	8300
Lead	8400	8400	8400
Bismuth	8500	8500	8500
Polonium	8600	8600	8600
Astatine	8700	8700	8700
Francium	8800	8800	8800
Radium	8900	8900	8900
Actinium	9000	9000	9000

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Approved Stock Form—State Publishing Co., Helena, Montana—42234

File No. _____

DUPLICATE

T. 16 N R. 42County Garfield

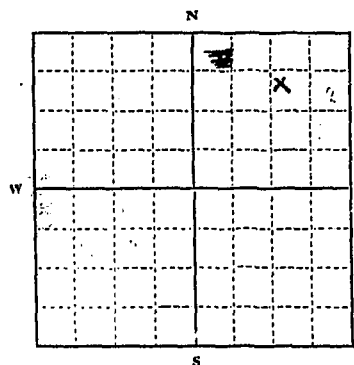
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Arthur P. Pluhan, of Box #103 Cohagen
(Name of Appropriator) (Address) (Town)

County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 7, T. 16, R. 42

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based Stock water

3. Date or approximate date of earliest beneficial use; and how continu-
ous the use has been 7/27/62
6 m.o's

4. The amount of groundwater claimed (in miner's inches or gallons
per minute) 10 gal/min.

5. If used for irrigation, give the acreage and description of the lands
to which water has been applied and name of the owner thereof

6. The means of withdrawing such water from the ground and the loca-
tion of each well or other means of withdrawal Wind mill
+ pump jack

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater 7/16/62 — 7/20/62

8. The depth of water table 150 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other
works for the withdrawal of groundwater 3 1/2" hole; 7' cast; 1/2" perfor-
ated holes from 150' to 180' ft.

10. The estimated amount of groundwater withdrawn each year 150,000 gal

11. The log of formations encountered in the drilling of each well if available 0-32, yellow clay;
32-42, gravel; 42-105, blue clay; 105-108, coal;
107-125, dry sand; 125-127, rock; 127-150, dry sand;
150-153, rock; and 153-180 sand (water).

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including
reference to book and page of any county record Book #1 - File # 20

Signature of Owner

Arthur P. PluhanDate 1/6/64

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of
Mines and Geology, and Quadruplicate for the Appropriator.

27014

790

125485

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 6 day of January

A. D. 1964 at 11:05 o'clock A. M.

Charles E. Vaughan
County Clerk and Recorder
By Marion H. James
Deputy

Fee Paid \$ 2.00

INDEXED

FILED

Form No. 18
8-60

T. 16N R. 12E

County Garfield

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 2 1962

Water Well Log

STATE ENGINEER

Owner Joe Hafle Address Cohagen, Montana

Driller Geo. F. Askin Address Miles City, Montana

Date Started 11/22/45 Date Completed 11/27/45

Location: Sec. 8 T. 16N R. 12E $\frac{1}{4}$ sec. SE $\frac{1}{4}$

Type of well drilled Equipment used Rotary
(Dug, driven, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Casing: 0 ft. to 258 ft. Type iron Size 4 inch

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or screened: Ft. 158 to ft. 258 . Ft. to ft.

Type of screen or perforations slots

Static water level, for non-flowing well: 50 feet from top feet.

Shut-in pressure, for flowing well: lb./sq. in. on:
(date)

Pumping water level feet at 24 gal. per min.

How tested: bailer

Length of test 1 hour

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

Depth feet		Description of Material Drilled
From	To	
0	12	top soil
12	31	Brown clay
31	36	coal
36	55	blue clay
55	57	Rock
57	65	Blue clay
65	90	Sand rock
90	113	Blue clay
113	114	Rock
114	118	Blue clay
118	120	Rock
120	138	Blue clay
138	142	Rock
142	155	Blue clay & shale
155	157	Green clay
157	163	Blue sand
163	165	Rock
165	177	Blue sand
177	179	Rock
179	206	Blue clay
206	215	Coal
215	232	Blue clay
232	251	Blue sand
251	258	Blue clay

Form No. 18
8-60

T. 16N R. 42E

County Garfield

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 2 1962

Water Well Log

STATE ENGINEER

Owner Joe Haffa Address Cohagen, Montana

Driller Higgins & Reary Drilling Co. Address Miles City, Montana

Date Started 6/1/56 Date Completed 6/5/56

Location: Sec. 9 T. 16N R. 42E $\frac{1}{4}$ sec. W $\frac{1}{2}$

Type of well drilled Equipment used Rotary
(Dug, driven, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other _____

Casing: 0 ft. to 258 ft. Type XXXXXX iron Size 4 inch

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or screened: Ft. 198 to ft. 258 . Ft. _____ to ft. _____

Type of screen or perforations slots

Static water level, for non-flowing well: 80 XXXXX feet from top feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____
(date)

Pumping water level _____ feet at 8 gal. per min.

How tested: bailer

Length of test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

Depth feet		Description of Material Drilled
From	To	
0	12	top soil
12	31	Brown clay
31	36	Coal
36	55	Blue clay
55	57	Rock
57	65	Blue clay
65	90	Sand rock
90	113	Blue clay
113	114	Rock
114	118	Blue clay
118	120	Rock
120	138	Blue clay
138	142	Rock
142	155	Blue clay & shale
155	157	Green clay
157	163	Blue sand
163	165	Rock
165	177	Blue sand
177	179	Rock
179	206	Blue clay
206	215	Coal
215	232	Blue clay
232	251	Blue sand
251	258	Blue clay

File No.

T. 16 N. R. 12 E.

DUPLICATE

County. Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

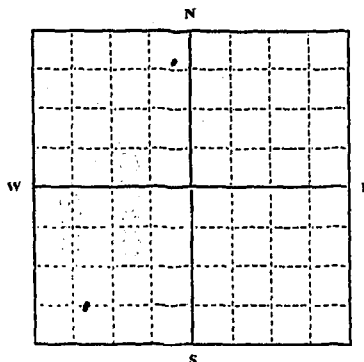
RECEIVED
DEC 30 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Anton Hafila, of Cohagen,
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4

SW 1/4 Sec. 10 T.16 R. 12

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based
Stock Well and Home Use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Both Wells used continuously.
N.W. - 9-12-60 begun -- 9-16-60 Completed
S.W. - 5-26-56 begun -- 5-30-56 Completed
4. The amount of groundwater claimed (in miner's inches or gallons per minute). N.W. -- 250,000 per minute - 15 gallons
S.W. -- 320,000 per minute - 20 gallons
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
.....
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
N.W. -- Windmill
S.W. -- Pressure Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. N.W. -- 9-12-60 begun -- 9-16-60 Completed
S.W. -- 5-26-56 begun -- 5-30-56 Completed
8. The depth of water table. N.W. -- 110 Ft. -- S.W. -- 55 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.
N.W. -- Drilled Well, 4" Casing used, 155' Deep
S.W. -- Drilled Well, 4" Casing used, 160' Deep
10. The estimated amount of groundwater withdrawn each year. N.W. -- 250,000 per minute year (gallons)
S.W. -- 320,000 per year (gallons)
11. The log of formations encountered in the drilling of each well if available. Top Soil, Yellow Clay, Blue Clay, Light Blue Sand, Blue Clay, Rock, Blue Clay, Rock, Blue Clay, Coal, Green Clay, Rock, Light Blue Sand, Blue Clay, Coal & Rock, Blue Clay, Rock, Blue Clay, Fine Blue Sand, Rock, Blue Clay & Coal.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None

Signature of Owner

Anton Hafila

Date 12-26-63

Three copies to be filed by the with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

14749

295

124939

STATE OF MONTANA }
County of Garfield }

Filed in the office of the Court Clerk and
Recorder of Garfield County, State of Montana,
this 26 day of Dec.

A. D. 1923 at 3 o'clock P.M.

Charles E. Langston
County Clerk and Recorder

By James B. Brown
Attorney

Fee Paid \$ 2.00

INDEXED mj
FILED cap

File No.

T 16 S. 17 R. 12

DUPLICATE

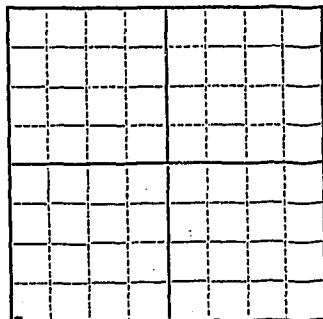
County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAY 11 1962
STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Dan C. Erlentusch of Cohagen,
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



well 1:
SW 1/4 Sec 12-16-12
well 2:
NE 1/4 SE Sec 34 T. 17 R. 12

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based. Well 1: Stock & Domestic; Well 2: Stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Well 1: January, 1958;
Well 2: June, 1968.

4. The amount of groundwater claimed (in miner's inches or gallons per minute). Well 1: 6 gallons per minute.
Well 2: 8 gallons per minute.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.
Well 1: one acre
Well 2: none

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
Well 1: pump and electric motor
Well 2: pump and windmill or pump-jack.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Well 1: January, 1968
Well 2: June, 1968

8. The depth of water table. Well 1: ~~100 to 120 feet~~ bails to 115 feet
Well 2: bails to 90 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Well 1: Cased with 4 inch casing 1 1/2 inch pipe on pump.
Well 2: 4 inch casing with 1 1/2 inch pipe on cylinder and pump

10. The estimated amount of groundwater withdrawn each year. Each well will water 200 head of cattle.

11. The log of formations encountered in the drilling of each well if available. Well 1: 0 to 40 ft brn soil; 40 to 41 ft coal; 41 to 47 ft blue shale; 47 to 48 coal; 48 to 75 ft blue shale; 75 to 76 ft coal; 76 to 90 ft blue shale; 90 to 92 ft rock; 92 to 110 ft blue shale; 110 to 160 ft sand, stone
Well 2: 0 to 20 ft top soil; 20 to 37 ft blue shale; 37 to 43 ft rock; 43 to 70 ft blue shale; 70 to 95 ft sand; 95 to 100 ft shale.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner Dan C. Erlentusch

Date May 11, 1962

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

File No.

T. 16 N. R. 42 E

DUPLICATE

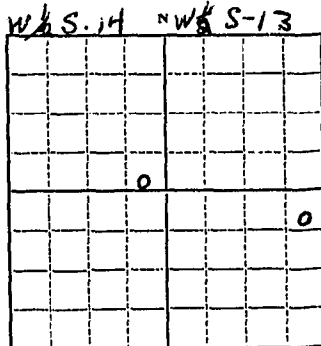
County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of ~~Valid~~ Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Frank Schmidt of Cohegan
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



T. 16 S. 14 S. Sec. 13 T. 16 R. 42 ✓
NW 1/4 S. Sec. 14 T. 16 R. 42 ✓

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based live stock
and domestic use
3. Date or approximate date of earliest beneficial use; and how con-
tinuous the use has been well no. one 1916
well no. two 1943, well no. one
fell out well no. two continuous
4. The amount of groundwater claimed (in miner's inches or gallons
per minute) five gal. per minute
5. If used for irrigation, give the acreage and description of the lands
to which water has been applied, and name of the owner thereof
not used for irrigation
6. The means of withdrawing such water from the ground and the
location of each well or other means of withdrawal wind mill
and electricity power
7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater well no. one completed in 1916
well no. two completed in 1943
8. The depth of water table well no. one 230' well no. two 244'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other
works for the withdrawal of groundwater well no. one 6" casing (galvanized)
well no. two 4" iron casing
10. The estimated amount of groundwater withdrawn each year well no. one 190,000 gal.
" " two 365,000 "
11. The log of formations encountered in the drilling of each well if available
Log not available on either well
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including
reference to book and page of any county record

Signature of Owner

Frank SchmidtDate 5-4-62

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is
located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau
of Mines and Geology, and Quadruplicate for the Appropriator.

RECEIVED

JUN 4 1962

STATE ENGINEER

(121832)
121832

STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 31 day of May

A. D. 19 62 at 10:05 o'clock A. M.

[Signature]
County Clerk and Recorder

Deputy

Fee Paid \$ 2.00

File No. _____

T. 16 N. R. 42 E

DUPLICATE

County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

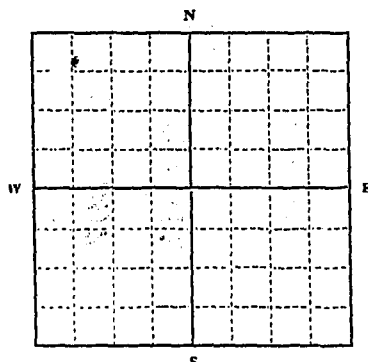
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DEC 30 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Anton Hafla, of Cohagen
(Name of Appropriator) (Address) (Town)
County of Garfield State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



N.W. 1/4 Sec. 15 T. 16 R. 42

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based
Stock Well

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
9-18-51, and used continuously.

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
15 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Electricity

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 9-16-51 begun -- 9-18-51

8. The depth of water table 111 ft. deep -- 80 ft. at Water table

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled well, 4" casing used, 111 ft. deep.

10. The estimated amount of groundwater withdrawn each year 320,000 gallons per year

11. The log of formations encountered in the drilling of each well if available Top Soil, Sand, Gravel, Clay, Sand, Shale, Coal, Shale, Rock, Fine Sand (dry), Shale & Coal, Shale, Coal, Shale, Coal, Shale, Quick Sand.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None

Signature of Owner Anton Hafla

Date 12-26-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

14751

297

124941

STATE OF MONTANA }
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 26 day of November

A. D. 1963 at 3:50 o'clock P. M.

Charles E. Thompson
County Clerk and Recorder
Charles E. Thompson

Fee \$10.00 200

INDEXED mf
FILED mf

File No.

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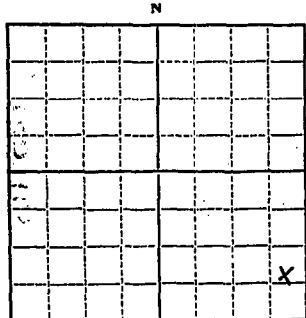
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

T 16 N 42 E 17
County Hardfield
RECEIVED
JAN 6 1964

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

N. N. Sand & Limestone Co of 910 Pleasant Miles City
(Name of Appropriator) (Address) (Town)
County of Custer State of Mont
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec 17 T16 R42

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based Stock Water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1955
Continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 6 gal.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
Not used for irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1955
8. The depth of water table 125 ft
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 4 in casing Depth 28.0 ft
10. The estimated amount of groundwater withdrawn each year 6460,000 gal.
11. The log of formations encountered in the drilling of each well if available None Available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record No other information available

Signature of Owner

N. N. Sand & Limestone Co
Hester Reid
Date Dec 30 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

23362

448
125105

STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk as
Recorder of Garfield County, State of Montana
this 30 day of Dec.

A. D. 19 63 at 11:09 o'clock A. M.

John E. Dargatzis
County Clerk and Recorder

By Marion R. James
Deputy

Fee Paid \$ 2.00

RECEIVED mf
FILED clp

Form No. 18
8-60

T. 16N R. 42E

County Garfield

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
DEC 22 1961

Water Well Log

STATE ENGINEER

Owner Arthur Pluhar Address Cohagen, Montana

Driller Buell-Edmond Drilling Co. Address Miles City

Date Started 11/23/54 Date Completed 11/23/54

Location: Sec. 18 T. 16N R. 42E $\frac{1}{4}$ sec. SW $\frac{1}{4}$

Type of well drilled Equipment used Rotary
(Dug, driven, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other _____

Casing: 0 ft. to 241 ft. Type iron Size 4 inch

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or screened: Ft. 175 to ft. 241 Ft. _____ to ft. _____

Type of screen or perforations slots

Static water level, for non-flowing well: 110 feet from top feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____
(date)

Pumping water level _____ feet at 7 gal. per min.

How tested: bailer

Length of test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

Depth feet		Description of Material Drilled
From	To	
0	14	Sandy Yellow Clay
14	29	Yellow Shale
29	30	Sandstone
30	45	Yellow shale
45	52	Blue shale
52	54	Sandstone
54	75	Blue Shale
75	85	Muddy Sand
85	87	Brown shale
87	110	Blue Shale
110	125	Sandstone with shale stringers
125	140	Blue Shale
140	145	Sandstone-hard
145	150	Gray shale
150	180	Gray shale
180	200	Sandy Shale
200	205	SANDSTONE Sandstone - soft
205	207	Sandstone - hard
207	213	Sandstone - soft
213	224	Gray shale
224	228	Sandstone - soft
228	232	Blue shale
232	235	Sandstone
235	239	Blue shale

18
T. 16N R. 42E
County Garfield

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
DEC 13 1961

WATER WELL LOG

STATE ENGINEER

Owner: Art Fluher Address: Cohagen, Montana
Driller: Tom Duell Address: Miles City, Montana
Date Started: October, 1955 Date Completed: in two days
Location: Sec. 18 T. 16N R. 42E 1/4 sec. SW 1/4

Type of well: drilled Equipment used: Rotary
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other: _____

Casing: 0 ft. to 240 ft. Type: 1/2 inch Size: 4 inch

Casing: _____ ft. to _____ ft. Type: _____ Size: _____

Casing: _____ ft. to _____ ft. Type: _____ Size: _____

Perforated or Screened: Ft. 177 to ft. 240 Ft. _____ to ft. _____

Type of screen or perforations: slots

Static Water level, for non-flowing well: comes to within 90 feet of surface feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level: _____ feet at 7 gal. per min.

How tested: baler

Length of test: _____

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

No log furnished with this well

Second well drilled 100 feet east of the above mentioned; well 110 feet deep,
used 2 inch galvanized casing, water comes to within 90 feet of surface.
didnot receive log from driller.

(over)

Form No. 18
8-60

16

T. 16N
22N R. 42E
County Garfield

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 2 1962

Water Well Log STATE ENGINEER

Owner Joe Haffa Address Cohagen, Montana
Driller Higgins & Reamy Drilling Co. Address Miles City, Montana
Date Started 11/30/55 Date Completed December 1, 1955
Location: Sec. 22 T. 16N R. 42E $\frac{1}{4}$ sec. SW 1/4

Type of well drilled Equipment used Rotary
(Dug, driven, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other _____

Casing: 0 ft. to 160 ft. Type iron Size 4 inch

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or screened: Ft. 120 to ft. 160. Ft. _____ to ft. _____

Type of screen or perforations slots

Static water level, for non-flowing well: 35 feet from top feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____
(date)

Pumping water level _____ feet at 10 gal. per min. _____

How tested: bailer

Length of test 30 minutes

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

[illegible]

File No. _____

DUPLICATE

T. 16 N. R. 42 E.

County. Gayfield

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

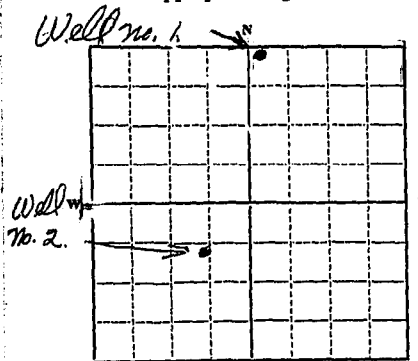
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Anton Schmitt, of Cohagen
 (Name of Appropriator) (Address) (Town)

County of _____ State of _____
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Well No. 1 N.E. 1/4 Sec. 25 T. 16 R. 42.

Well No. 2 S.E. 1/4 Sec. 22 T. 16 R. 42.

Indicate point of appropriation
 and place of use, if possible.
 Each small square represents 10
 acres.

2. The beneficial use of which the claim is based. For
Livestock Use

3. Date of approximate date of earliest beneficial use; and how con-
 tinuous the use has been. Well No. 1 8-15-58
Well No. 2 1916. Not used at present.

4. The amount of groundwater claimed (in inches or gallons
 per minute). Well No. 1 4 gal. per min.
Well No. 2 4 gal. per min.

5. If used for irrigation, give the acreage and description of the lands
 to which water has been applied and name of the owner thereof

None

6. The means of withdrawing such water from the ground and the
 location of each well or other means of withdrawal.

Hand pump

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
 drawal of groundwater. Well No. 1 8-15-58. Completion 8-15-58
Well No. 2 1916.

8. The depth of water table. Well No. 1 280' Well No. 2 200'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other
 works for the withdrawal of groundwater. Well No. 1 4 in. iron casing
Well No. 2 3 in. iron casing

10. The estimated amount of groundwater withdrawn each year. Well No. 1 730,000

11. The log of formations encountered in the drilling of each well if available. Log not
available on either well.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including
 reference to book and page of any county record.

Signature of Owner

Anton Schmitt

Date May 3-1962

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is
 located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau
 of Mines and Geology, and Quadruplicate for the Appropriator.

RECEIVED
JUN 4 1962

STATE ENGINEER

121831

121831

STATE OF MONTANA }
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 31 day of May

A. D. 1962 at 10:00 o'clock A. M.

Clara D. Ragg
County Clerk and Recorder

By _____ Deputy

Fee Paid \$ 2.00

Form No. 18
8-60

26

T. 23 R. 42E
County Garfield

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 19 1962

Water Well Log

STATE ENGINEER

Owner Joe Haffa Address Cohagen, Montana
Driller Higgins Drilling Co. Address Wiles City, Montana
Date Started 1/8/58 Date Completed 6/9/58
Location: Sec. 26 T. 16N R. 42E $\frac{1}{4}$ sec. SE1

Type of well drilled Equipment used Rotary
(Dug, driven, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other _____

Casing: 0 ft. to 90 ft. Type iron Size 4 inch

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or screened: Ft. 50 to ft. 90 Ft. _____ to ft. _____

Type of screen or perforations _____

Static water level, for non-flowing well: 25 feet from top feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____
(date)

Pumping water level _____ feet at 20 gal. per min.

How tested: bailer

Length of test 30 minutes

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

[illegible]

File No.

DUPLICATE

T. 16 N. R. 42 E. 28

County. Yellowstone

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964

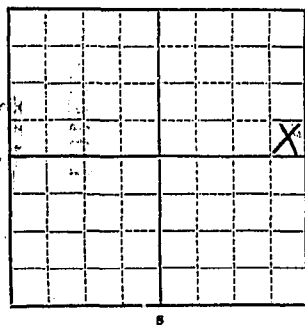
Declaration of Vested Groundwater Right Engineer

(Under Chapter 237, Montana, Laws, 1961)

N-N Sand & Livestock Co, of 910 Pleasant Miles City
(Name of Appropriator) (Address) (Town)

County of Custer State of Mont

have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SENE 1/4 Sec. 28 T. 16 R. 42

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based. Stock Water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1956
continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 6 gal.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. Not used for irrigation

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1956

8. The depth of water table. 125 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 4 in casing 280 ft.

10. The estimated amount of groundwater withdrawn each year. 460,000 gal.

11. The log of formations encountered in the drilling of each well if available. None available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. No other information available

N-N Sand & Livestock Co
Signature of Owner Dexter Reid
Date Dec 30 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

23361

447

125104

STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana
this 30 day of Dec.

A. D. 19 03 at 11:03 o'clock 4 M

Charles E. Langhorne
County Clerk and Recorder

By Marianne K. Lamer
Deputy

Fee Paid 2.00

INDEXED mt
FILED copy

File No.

DUPLICATE

T. 16^N R. 42^E S. 34
County Garfield

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

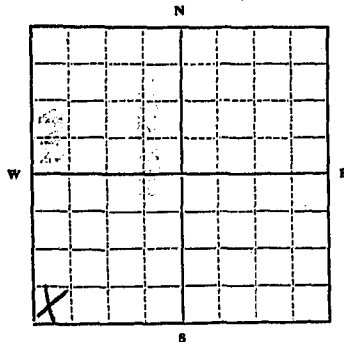
RECEIVED
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. N-N Land & Livestock Co, of 910 Pleasant St Miles City
(Name of Appropriator) (Address) (Town)
County of Custer State of Mont
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 34 T. 16 R. 42

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based Stock Water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1953 Continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 6 gal per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1953
8. The depth of water table 70 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6 in casing Depth 90 ft
10. The estimated amount of groundwater withdrawn each year 460,000 gal.
11. The log of formations encountered in the drilling of each well if available None available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record No other information available

Signature of Owner N-N Land & Livestock Co
Custer Reed
Date Dec 30 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

23355

441

125098

STATE OF MONTANA
County of Garfield

Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 30 day of Dec.

A. D. 1917 at 10:37 clock P. M.

Charles E. Hawkins
County Clerk and Recorder

by Marion H. Quinn
Deputy

Fee Paid \$ 2.00

INDEXED

FILED

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County **Garfield**

SFP 8 1959

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

WATER WELL LOG

		34	
•			

Owner **SHELL OIL COMPANY** Address **Billings, Montana**

Driller Whitner Address 1000 1/2 E. 1st St. S. Okla City, Okla.

Date Started June 6, 1953 Date Completed June 7, 1953

Location: Sec. 34 T. 26 N R. 42 E 1/4 sec. Southwest

Drilled		Churn drill	
Type of well.....	Equipment used.....	Type of well.....	Equipment used.....
(Dug, driven, bored, or drilled)		(Churn drill, rotary, other)	
1		1	
2		2	
3		3	
4		4	
5		5	
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99		99	
100		100	

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other: **Plugged and Abandoned**

Casing: None ft. to ft. Type Size

Casing:.....ft. to.....ft. Type..... Size.....

Casing:.....ft. to.....ft. Type..... Size.....

Perforated or Screened: Ft..... to ft..... Ft..... to ft.....

Type of screen or perforations.....

Static Water level, for non-flowing well:fe

Shut-in pressure, for flowing well:lb./sq. in. on: (date)

Pumping water level.....feet atgal. per min.....

How tested:.....

Length of test.....

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

Drilled 6" hole to 170', found no water.

Hole back-filled and abandoned.

(over)

34

T. 16N R. 42E

County **GARFIELD**

RECEIVED
APR 4 1962

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Sessions Laws 1961) STATE ENGINEER

County of Yellowstone State of Montana
have appropriated ground water according to the Montana laws in effect prior to
January 1, 1962 as follows:

[illegible]

2. The beneficial use on which the claim is based Industrial

3. Date of approximate date of earliest beneficial use;
and how continuous the use has been June 28, 1953

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 40 gal/min

5. If used for irrigation give the acreage and description of the lands to which water has been applied and name of owner thereof

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. **Motor driven pump.**

7. The date of commencement and completion of the construction of the well, wells or other works for withdrawal of ground water **June 7th 1953 started. Comp. June 28, 1953**

6. The depth of water table 225'

9. So far as it may be available, the type, size and depth of each well or the general specification of any other works for the withdrawal of groundwater TD 904 6-5/8" csg to 904 Perfs 740-794 and 853-876.

10. The estimated amount of groundwater withdrawn each year *

11. The log of formations encountered in the drilling of each well if available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act indicating reference to book and page of any county record

*** Used for drilling one well**

Signature of Owner A. J. Green
Shell Oil Company
Date February 5, 1962

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

STATE OF MONTANA
County of Yellowstone } ss

A. T. Ireson having first been duly sworn, depose
and say that he is of lawful age and is the appropriator
for Shell Oil Co. and claimant of the order and water right mentioned
in the foregoing declaration of vested groundwater rights and the person
whose name is subscribed thereto, as the appropriate person
and claimant, that he know that the
contents of said foregoing notice and that the matters and things therein stated
as true.

Subscribed and sworn to before me, this 5th day of February 19 62

Margaret W. Laag
Notary Public for the State of Montana

Residing at Billings, Montana

My Commission expires March 30 19 62

STATE OF MONTANA
County of Garfield }
Filed in the office of the County Clerk and
Recorder of Garfield County, State of Montana,
this 2 day of April,
A. D. 19 62 at 8:35 o'clock A.M.
By Alvin A. Chandler
County Clerk and Recorder
Deputy
Fee Paid \$ 2.00

121555

RECEIVED
JUN 8 1959

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

WATER WELL LOG

Owner: SHELL OIL COMPANY Address: P. O. Box 2547
Livingston Address: Billings, Montana
 Driller: Livingston Address: Winnett, Montana
 Date Started: June 25, 1953 Date Completed: June 25, 1953
 Location: Sec. 34 T. 16 N R. 42 E $\frac{1}{4}$ sec. Southwest

Type of well: Drilled Equipment used: Churn drill
 (Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
 Industrial ☒ Drainage ☐ Other: _____

Casing: 0 ft. to 904 ft. Type Steel Size 6-5/8"

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 740 to ft. 794 Ft. 823 to ft. 875

Type of screen or perforations: Torch perforated

Static Water level, for non-flowing well: 150 feet

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level: 225 feet at 40 gal. per min.

How tested: Bailing

Length of test: _____

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

Baker basket at 736'

(over)

Zero measurement is at rotary table which was 1 1/2 feet above ground. Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	50	Surface
50	200	Gray clay - coal - dark clay
200	220	Gray clay
220	240	Gray clay - fine soft sand
240	258	Gray clay
258	259	Hard shell
259	274	Hard streak lime and sand to gray clay
274	276	Hard streak
276	310	Clay - hard sand - lime streak
310	320	Gray green clay
320	330	Shale streak - hard sand
330	360	Gray clay
360	370	Bentonite
370	390	Gray clay
390	460	Varied colored clay and shale
460	500	Varied colored clay - sand and lime
500	510	Varied colored clay - sand and lime
510	620	Gray clay
620	630	Varied colored clay - shale
630	640	Light green clay
640	698	Varied colored clay
698	715	Fine sand
715	736	Very fine sand and clay
736	741	Hard streak
741	760	Fine sand - sand varied with clay
760	780	Coarse sand
780	790	Medium lime streak - hard sand and clay
790	824	Streak of sand - varied colored clay
824	840	Green clay
840	848	Varied colored clay - sand - hard streak
848	860	Sand - varied colored clay
870	880	Medium sand
880	904.6	Sand - mostly clay
904.6		Bottom

File No.

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

T. 16 N. R. 42 E. 36
County Garfield

RECEIVED
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. N-N Land & Livestock Co of 910 Pleasant Miles City
(Name of Appropriator) (Address) (Town)
County of Garfield State of Mont
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

X									

NW 1/4 Sec 36 T16 R42

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. Type beneficial use on which the claim is based. Stock Water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1930 Continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute). Approximately 10 gal

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. Not used for irrigation

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. that flows Spring

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1930

8. The depth of water table. 4 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Dug for 300 yds, 4 ft deep

10. The estimated amount of groundwater withdrawn each year. 2,678,000

11. The log of formations encountered in the drilling of each well if available. None available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None available

N-N Land & Livestock Co
Signature of Owner Hector Reid
Date Dec 30 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; triplicate to the Montana Bureau of Mines and Geology, and quadruplicate for the Appropriator.

33356

442
125099

STATE OF MONTANA }
County of Garfield }

Filed in the office of the County Clerk &
Recorder of Garfield County, Sept 11 M. m.
this 30 day of Dec.

A. D. 19 63 at 10:58 A. M.

Charles E. Thompson
County Clerk and Recorder

By *Marian H. Jones*
Deputy

Fee Paid \$ 2.00

[Signature]
INDEXED
FILED

GROUNDWATER INDEX

Page 1 of 1County Maricopa Twp. 1677 Rge. 436

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6	Schlepp John K.	57	4		
6	Schlepp John K.	484		124973	
5	Northwestern Pacific Railway Co.	484		124637	
11	Gordon John B.	484		125038	
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26	Gordon Olga L.	484		125053	
26	Gordon Olga L.	484		125051	
27	Northwestern Pacific Railway Co.	483		124626	
35	Gordon Olga L.	484		125052	
4	Holmes, William A.	684		123085	

File No. _____

DUPLICATE

Notes on County records

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Approved Stock Form—State Publishing Co., Helena, Montana—38687

T. 16 R. 43

STATE ENGINEER
STATE OF MONTANA

County Garfield

ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

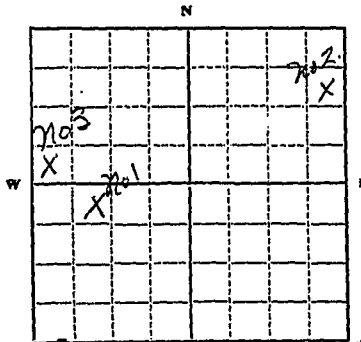
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED

STATE ENGINEER

1. William A. Helm, of Rock Springs, Montana
(Name of Appropriator) (Address) (Town)
County of _____ State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



T. 17, R. 43 Sec. 32: NW $\frac{1}{4}$ SW $\frac{1}{4}$
T. 16, R. 43 Sec. 4: NE $\frac{1}{4}$ NE $\frac{1}{4}$
SW $\frac{1}{4}$ NW $\frac{1}{4}$ T. 17, R. 43 — 23

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based. House hold and stock water.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. No. 1. Homestead days Cont. use
No. 2 1946 Cont. use.
No. 3 1952 Cont. use
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gals. per min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
All three wells have pumps
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. See. 3
8. The depth of water table. No. 1-130 ft. No. 2-70 ft. No. 3-160 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. No. 1- Drilled 4" casing, 190 ft. deep.
No. 2- Drilled 4" casing, 190 ft. deep.
No. 3- Drilled 4" casing 170 ft. deep.
All three have 1 1/2" pipe equipped with 7/16" rod for pumping. Well No. 3 has windmill & pump jack. No. 1 & 2 just have pump jacks.
10. The estimated amount of groundwater withdrawn each year. No. 1- 220,000 gal. No. 2- 220,000 gal.
No. 3- 220,000 gal.
11. The log of formations encountered in the drilling of each well if available. No. 1- Not available
No. 2- 0 ft. to 125 ft. shale & steaks of sand, 125 ft. to 128 ft. Rock.
No. 3- Not available.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner /s/ William A. Helm

Date January 22, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

3487